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INDIANAPOLIS, SUNDAY MORNING, JULY 9, 1899.

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ISLAND OF PORTO RICO

OBSERVING TRAVELER'S VIEW OF
UNCLE SAM'S NEW SWITZERLAND.

Its Striking Scenic Beauties, Its Cli-
mate and What It Will Do for
Broken-Down Business Men.

A SANITARIUM FOR INVALIDS

NEARLY A MILLION PEOPLE GET
THEIR LIVING FROM THE SOIL.

Visit to Uncle Sam's Big Vaccine
Farm—Army Surgeons Inoculate
Cattle by the Thousands.

[Copyright, 1899, by Frank G. Carpenter.]
SAN JUAN, Porto Rico, June 25.—Uncle
Sam's West Indian garden patch! How
shall I describe it? It is different from
anything that has been published concern-
ing it. It has more curious features than
any part of the South American continent
where I have been traveling for the past
year, and a richer soil than almost any part
of the world.

I came to Porto Rico on the government
transport McPherson and have already
crossed the island from one side to the
other, making many excursions through the
interior. The island is a revelation to me.
I have never seen a country in which nature
has done so much to make a pleasant home
for man.

Porto Rico is a combination of the beau-
ties of the tropics and temperate zone. It
is the new Switzerland of Uncle Sam's do-
minion. It lacks perhaps the grandeur of
the Alps or the Rockies, but its quiet semi-
tropical beauties more than make up for
lack of snows and gigantic rocks. Some-
times in going over it I am reminded of
Japan, and again I am carried back to the
mountains of Korea or the hills of China.

There are silver streams, with thatched
huts clinging to the sides of the hills down
which they run, and the region is not un-
like the Blue Ridge mountains in their
soft, hazy beauty, and other parts in which
were it not for the bananas, the cocoanut
palms, the breadfruit trees and other trop-
ical wonders you might imagine yourself at
home in some of the most beautiful of our
rolling lands.

Before I describe my tour of the island
let me give you a bird's-eye view of it. Suppose
we could attach ourselves for the
purpose to the tail of one of our Weather
Bureau kites, which, I believe, mount higher
than any other kites made by man, and
fly over it. We should see a great rectan-
gular body of blue land rising, as it were,
out of some of the quietest waters of the
globe.

Porto Rico is about 1,500 miles from New
York on the boundary between the Atlantic
ocean and the Caribbean sea.

It lies between the islands of Santo Do-
mingo and St. Thomas. It is so near the latter
that you can steam there in
about six hours, and so far east of Cuba
that it takes our best transports two days
to go from Ponce, on the south, to the city
of Santiago.

Porto Rico, as we see it from our kite, is
a mass of rolling hills. With the exception
of a light green fringe bordering the coast
it is all hills and valleys. And such hills and
valleys. The hills slope in places like
walls, and the valleys are gigantic capital
V's, with mountain streams dashing
through them. Everything is covered with
green, the dark shades of the mountains
largely composed of coffee, tobacco and
bananas, while the sickly green of the
coastal plains comes from the sugar planta-
tions.

In looking at the island you see that the
hills rise higher in the center. It is divided
by a mountain chain, which runs through
it from west to east, branching out near
the end in two spurs. This ridge looks just
like a pitchfork with two right angles and a
long handle. The joint of the fork is about
sixty miles from the western end of the
island, and each of the tines is about forty
miles long. Not far from the base of the
green mountain rises high above the
others. This is El Yunque, or the "Anvil,"
the highest point in Porto Rico. It is 5,000
feet above the level of the ocean and you
can see it far out in the Atlantic and in the
Caribbean.

WHERE ATLANTIC IS DEEPEST.
It is the top of the mountain chain, rising
out of the sea, forms the Antilles. These
islands are, in fact, merely the peaks of
a great mountain range which extends
far down into the bed of the ocean. If the
water could be taken away or walled off,
you would here have some of the highest
mountains of the globe. The deepest part of
the Atlantic is just north of Porto Rico. In
coming to San Juan I sailed over Brown-
son's Deep, the bottom of which is five miles
under water. It was at the point in the
ocean plain where the land rises and finally
culminates in El Yunque. If you could sub-
merge the sea from this point the top of Porto
Rico would be higher than any mountain
in the Andes or the Rockies. It would be
higher than anything in the world outside
the very highest of the Himalayas. The
same mountain chain springs up out of the
water in Cuba to a distance of eight thou-
sand feet above the sea, and in Santo Do-
mingo, where it is the tallest, to eleven
thousand feet. It rapidly falls toward the
east, and in St. Thomas it rises only half
as high as Porto Rico above the water.

I have called Porto Rico a garden patch.
It is little more than that in size com-
pared with the United States. It is so small
it would hardly be a mole on the face
of Texas. It would take just about 1,000
Porto Ricos if they could be sliced off and
patched together to make a crazy quilt cov-
ering the United States. It is only three
times as big as Rhode Island, about half as
big as New Jersey and little less than half
the size of Massachusetts. You could put
ten Porto Ricos into Indiana, and if you cut
it up into squares it would be only sixty
times the size of the State of Columbia.
Its average width is about as great as from
Washington to Baltimore, and its length is
not much greater than from Baltimore to
Philadelphia. Were it level you could walk
from one end of it to the other in three
days and across it in one. On a bicycle you
could travel over it in a few hours from
coast to coast.

THE PEOPLE SWARM.
Notwithstanding its smallness, however,
it is more thickly populated than any of our
States except Massachusetts and Rhode
Island. It has 814,000 people, or 23 to the
square mile. A square mile is 640 acres. It
is just a section of land. On every section
of Porto Rico there are 23 people, and on
every quarter section, or 160-acre farm,
there are living on the average about fifty-
four souls.

This is so notwithstanding the island has
almost no manufacturing. The people all
live off the soil, and hence their condition
cannot be compared with that of the people

of our thickly settled manufacturing States,
where there are so many large cities.

As to Porto Rico has twice as many
people to the square mile as the State of
New York; twice as many as Pennsylvania
and three times as many as Indiana or Illi-
nois; six times as many as Missouri or
Georgia and almost nine times as many as
Louisiana. With such conditions it would
seem a poor place for our farmers, who
need at least a square mile to turn
around in.

I see it stated that there are 200,000 people
living in the cities of Porto Rico. I don't
believe it. The country has only three cities
of any size, and all the towns are over-
estimated. San Juan has, it is said, 75,000
people, but if so half of these live in the
suburbs. By the estimates of the health
officers, who made a careful canvass, there
are only 15,000 people living inside the walls,
and this section constitutes the city proper.

Mayaguez has perhaps 10,000 people and
Ponce has 10,000 and 30,000.

The most of the so-called cities of Porto
Rico would be considered little more than
villages in the States. The land is divided
up into municipalities, but each municipali-
ty contains not only the village by which it
is governed, but all the people living for
miles around, so that a town of 500 or 1,000
is often put down as having from six to ten
times that number. I find, in fact, the fig-
ures and statements put down in the books
as to matters Porto Rican full of errors.

They are made up from unreliable data,
and the most of them come from Spanish
books from fifty to a hundred years old.

Take, for instance, the climate. About a
generation ago some Spaniard wrote that
Porto Rico was a country of catarrh, con-
sumption and bronchitis. He stated that the
hot, moist climate caused dysentery and
fevers and gave the land a bad name
as to health. This statement has to a large
extent been copied and has created a seri-
ous misimpression. Our army surgeons told
me that the contrary is the truth, and I find
that the Americans who have come to Porto
Rico have, as a rule, improved in health.

Take myself. When I left Washington I
was considered troubled with the nasal cat-
arrh for which that city is famous. I
brought with me an atomizer and other
remedies. The moment I landed at San Juan
my catarrh left me and I have not had a
sign of it during my stay here. One of the
captain quartermasters has had a similar
experience, and I have met a number of
people who have been cured of catarrh and
bronchitis since landing at Porto Rico.

I was talking to-day with Mr. Harrison,
the manager of the San Juan & Rio Piedras
Railroad, as to climatic conditions. Said he:
"I think Porto Rico will eventually be a
sanitarium for Americans who are broken
down nervously. Take my own case. I was
afflicted with nervous prostration when I
came to Chicago, and I could not sleep and
could not work. I have improved every
hour since I came to Porto Rico and I have
been at my desk from 8 in the morning un-
til 6 every day. I am doing what would
naturally be wearing work. It is, you
know, the organization of this railroad, but
it does not seem to affect me. Every one
is here."

"There is another thing about the cli-
mate," continued Mr. Harrison, "that
should be contradicted, and that is as to
consumption. I have looked for it and I
cannot see many evidences of it. In our
streets cars we do not have the disgusting
hawking and spitting that you find in the
United States. You will not see it on the
streets and I don't believe that the disease
exists."

It is not hot here except in the middle of
the day, and then no warmer than in the
United States. I doubt whether Porto Rico
ever gets so hot as some parts of Ohio and
Indiana in the summer, and there is no
question but that the Porto Ricans would
roast in Washington in July and August.

The air here is full of moisture but there
is a breeze always blowing which makes it
rather pleasant than otherwise. The aver-
age daily temperature the year around is
about 70 degrees, and here at San Juan
the mean monthly temperature deduced
from observations of more than twenty
years is less than 70 degrees Fahrenheit.

In this period the thermometer only rose
thrice to 90 degrees and it never fell below
51 degrees.

With so much humidity even this heat
would be oppressive if it were not for the
breezes which come from the north Atlantic.
They are full of ozone and they stimu-
late you like a cocktail. I find that I am
daily doing too much, tiring myself out
before I know it, and only realizing that I
have been under the sun. This is espe-
cially so on the coastal plains. Further
back on the high lands the air is cooler
and more stimulating. In fact, I should say
that Porto Rico is fully as healthful a coun-
try as any of our Southern States.

WHOLESALE VACCINATION.
And this brings me to the question of the
smallpox, which has been reported as rag-
ing down here this year. There have been
some cases and the most of them have been
removed to an island near San Juan or put
into hospitals apart from the rest of the
people. The poor among the Porto Ricans
have been in a state of alarm, and I wonder
the whole island is not infected with the
disease. I will describe the life later. At
present I believe there are no smallpox
cases left.

The most remarkable thing in connection
with the smallpox was the vaccination of
the whole population by our army sur-
geons. When I arrived in San Juan every
man, woman and child had sore arms. I
saw sore arms on every country road. Sore-
armed men worked in the fields, sore-armed
women stood at the doors of the houses
with sore-armed babies in their arms, and
I saw them by hundreds in every city and
village as I traveled through the interior.

I venture that there were at least 80,000
sore arms here at that time.

In many cases the vaccination took so
seriously as to make large scars, and it was
not uncommon to see babies with scars on
their arms as big as a quarter of a dollar.

In going through the poorest quarters of the
cities and studying the life there I pretended
at times to be a government inspector, and
took a look at the arms of the people as
an excuse for entering the houses to see
how they lived, and I failed to find any who
were not more or less afflicted.

The vaccination of this enormous number
within a few weeks was one of the great
feats of modern surgery. A few months
after Uncle Sam took possession it was
found that smallpox had broken out in
the city, and that a very large number of
the population had been vaccinated. It was
decided that all must be inoculated at once.

Major Abel Ames, one of our army sur-
geons, was chosen to take charge of the
work, and he has accomplished it in a way
that will be one of the wonders of medical
history.

In the first place regulations were sent
out providing that a man could not get
work or do business of any kind without
he was vaccinated, and that all the people
must come to certain stations over the
island and submit their arms to be vac-
cinated. The penalties were such that they
came in hordes, and to-day I doubt if
there are one hundred unvaccinated men,
women and children on the island.

The work was carried on largely by the
native doctors, under the direction of our
surgeons, and thousands were treated in
a day. In cases where the first vaccination
did not take a second vaccination was re-

quired, and, all told, the vaccination must
have amounted to more than a million.

VACCINATING CATTLE.
The supplying the vaccine matter for
this work was a serious undertaking. At
first vaccine points by the thousands were
imported from the United States. The long
sea voyage destroyed the virus and Major
Ames found that he would have to make
his own vaccine matter here.

For this reason he tried to vaccinate the
Porto Rican cattle, but the results at first
were unsatisfactory. Our cattle when vac-
cinated develop blisters and sores just like
those which appear on the arms of human
beings when so inoculated. The matter
which oozes out from the sores is put
upon points used for vaccination of
human beings. The Porto Rican cattle
when vaccinated formed hard round scabs
without pus. At first Dr. Ames thought
that the operation had been of no effect.

By squeezing the scabs, however, he discov-
ered that they produced drops of vaccine
matter and that from these he could make
the points required.

The next thing was to establish a vaccine
farm. He did this near Coamo Springs and
in a few weeks had here the largest vac-
cine farm on record. He secured about
2,000 animals ranging from eight months to
one year old. The vaccination did not in-
jure the cattle, and the big stock dealers
of the island furnished them for nothing,
on the simple condition that they were to
be returned in good order.

Each of the animals was first examined
to see that it had no tuberculosis or other
diseases. Its temperature was taken again
and again, and it was given a place on the
government record. When vaccinated it
was numbered with a zinc tag, and the
number of vaccine points which were made
from it were marked to correspond with
this tag, so that an exact record of every
point could be had.

During my stay at Coamo Springs I
learned something of how the beasts were
vaccinated. Each animal, after being
tested and found free from disease, is
brought up beside a folding table, the top
of which stands perpendicularly against the
side of the animal. The beast is now tied
to the table, and by a twist the top is
raised and laid horizontally on the legs of
the table with the beast on top of it.

Now the doctors shave all the hair from
a place as big as your two hands on one
side of the belly, exposing the skin, which is
as soft and tender as that of a child. This
is scraped for a time with a sharp knife
until the blood shows through the skin, and
upon the sore spot the vaccine matter is
rubbed. The animal is then turned over
and a spot upon its other side is vaccinated
in the same way.

It is found that nearly all the animals
take, and Dr. Ames tells me he has ob-
tained as many as 2,000 points from a single
beast. One of the queer things about the
farm is the method of distinguishing the
cattle vaccinated from day to day. Those
which are treated one day are painted with
red, those of the next day have their
horns painted blue and those of the third
day yellow. In this way the groups can
be easily distinguished and the vaccine
matter gathered at just the right time.

FRANK G. CARPENTER.

AN AMERICAN SILK WORM.

Polypheumus Moth Spins a Cocoon in
Every Way Perfect.

E. A. Samuels, in National Magazine.

An American silk worm? Why not? We
have ten or more native species all of which
produce a fiber of delicate texture and
beautiful luster, but unfortunately the
cocoon is for various reasons of small
commercial value.

For example, the caterpillar of the great
Cecropia moth, one of the largest and hand-
somest of our native species, spins a cocoon
which is open at one end, which opening pre-
vents the reeling of a perfect thread. The
larva, a moth that we sometimes find in
our ramble through the woods, makes a
cocoon that is too frail and weak to be of
much value to the silk culturist.

But we have one native species, the Poly-
phemus moth, whose larva spins a large,
dense cocoon, which is in every way per-
fect, its fiber being very strong and glossy.

This beautiful moth measures from five to
six inches across its expanded wings and
is much more common in our oak woods
than most people imagine. Its color is a
dusky-yellowish, clouded somewhat with
black in the middle of the wings.

The margin of the wings has a gray
stripe, and near their hinder margin is a
dusky band edged with reddish white. On
each side of the wing is a transverse
eye-like spot, surrounded by black and
yellow rings, and also a blue spot which
blazes it into black.

This moth has been reared in large num-
bers in captivity, and the silk obtained from
its cocoons has been woven into some of the
most beautiful fabrics.

The value of this species as a silk pro-
ducer was discovered in 1880 by an entomol-
ogist naturalist named Trounvelot. After a
number of years of unsuccessful effort he
obtained enough cocoons to enable him to
establish his value, and he then proceeded
to start a silkworm-rearing plant in Med-
ford, Mass. He was so successful that in
1885 he had probably over a million of them
feeding on five acres of scrub oaks and
hickories, which were covered with netting to
prevent the destruction of the worms by
birds. A visit to Trounvelot's establish-
ment impressed one with the magnitude of
the work that was in progress and the pa-
tient industry of the Frenchman.

The polyphemus moths are different in
their habits from the silkworms of the
mulberry tree, and the cocoons of the
moths and emerge from the cocoons from
about the 20th of May until July; they im-
mediately spin and the female proceeds to
lay her eggs. These are about three hun-
dred in number and are scattered here and
there on the under side of oak leaves and
twigs.

The caterpillar is hatched in ten or twelve
days, and it soon begins to feed. When
first hatched the worm is, of course, very
small, but it eats voraciously and grows
with astonishing rapidity and is fully
grown when about fifty-six days from the
egg.

Mr. Trounvelot kept accurate memoranda
concerning the diet of these worms, and he
found that they ate on average not less
than one hundred and twenty oak leaves,
weighing three-fourths of a pound, and
drank not less than one-half an ounce of
water.

During the fifty-six days of its cater-
pillar life the worm moults or changes its
skin five times, its dimensions increasing at
each moult, until finally it attains a length
of about three inches, slightly larger than
the Chinese species.

Having attained its full size, it next spins
a cocoon. The silk of which the cocoon is
made, exudes from a tubelike organ attached
to the mouth; it issues in two streams, the
reservoir on each side of the body, which
are united in one thread. As it first flows
it is in the form of a sticky fluid, which
hardens when it is exposed to the air.

This caterpillar is different from the ordi-
nary silk worm inasmuch as it is independ-
ent and can take care of itself. It very
skillfully draws two leaves together by
throwing the silk around the edges, and by
shortening the strands the patient worker
brings them into the desired rolled-up po-
sition for the reception of the cocoon. In
making this the worm moves its head about
in different directions, and the cocoon is
according to Mr. Trounvelot never less than
25,000 feet long.

There is no doubt that the cocoons of this
moth are probably the most important
factor in the economic culture of the insect.

The Chinese silk worm requires for food
the leaves of the mulberry tree, and the
culture of that species is of course limited
to those who have mulberry plantations, but
as before stated, this collection does not
apply to the American silk worm, for there
is an unlimited supply of its favorite food
always available.

Other silk growers than Trounvelot suc-
cessfully raised the Polyphemus in large
numbers in captivity and the silk they pro-
duced was of the best quality.

In view, therefore, of the fact that the im-
mense quantities of raw silk which we use
is almost entirely of foreign growth, it
would seem that, possessing as we do a na-
tive silk worm which spins abundantly a
thread of most desirable texture, a worm
that is hardy and healthy, one that can be
reared and fed at a minimum of cost; we
ought to develop a profitable industry in its
culture, which would give lucrative employ-
ment to women and children in localities
that are adapted to this kind of business.

CIENFUEGOS IS MODERN

THE MOST IMPORTANT CITY ON THE
SOUTHERN COAST OF CUBA.

A Rich Sugar and Tobacco-Growing
Region—Knights of the Road Who
Need to Be Gathered In.

Special Correspondence of the Journal.

CIENFUEGOS, June 25.—The newest city
of Cuba, founded during the present
century, is much more Americanized than
any other on the island. It was created by
the sugar trade and includes a large num-
ber of American and English planters, mer-
chants and shippers. I think it was in the
year 1818 that its name was bestowed, now
as is generally stated, because of Colum-
bus's remark when he sailed this way and
saw many Indian fires along shore, "Mirai
cién fuegos!" (Look! a hundred fires!), but
in honor of Senor Don Jose Cienfuegos, a
Spanish Hidalgo who was then the governor
general of Cuba. Instead of the narrow,
crooked, ill-paved cow paths that distin-
guish its three-century-and-odd-old neigh-
bors, Havana, Matanzas, Santiago and
Trinidad, Cienfuegos's streets are broad,
level and well paved, laid out at right
angles with the regularity of a checker
board and intersected by gas and electric
tricity. To tell the truth the very new-
ness of the town, its freshly painted two-
story houses and commonplace, "modern
improvements" are somewhat disappointing
to the traveler, who feels that he did not
come so far to see what he has everywhere
at home and abroad. But the beauties of
the musty picturesqueness of Nueva
Espana which he had a right to expect,
Bright, clean and progressive, with its popu-
lation now reckoned at 42,000, the seaward
outlet of the finest sugar-producing
province of Cuba and the terminus of the
most important railway line, it is by all
odds the best business town in southern
Cuba, and is therefore bound to attract the
greatest number of Americans. Its har-
bor—a deep inlet behind the sheltering arms
of Doce Leguas, innumerable wooded islets
stretching along the south coast, which
Columbus named the "Queen's Gardens,"—
is the safest, deepest and cleanest, if not
the largest, that indents Cuba. It is one
of the few in Spanish America which per-
mit vessels of largest tonnage to come up
to a wharf and land passengers over a
gangplank as in New York without the aid
of the troublesome but omnipresent small
boats.

The Caribbean sea and Spanish main make this
a frequent port of call, and the wonder is
why Spain left it so comparatively undevel-
oped while ports of far less consequence
and more difficult of access have their
morrors and long lines of fortifications. I
suppose the reason was because of the
wars over in the mother country before
Cienfuegos was born, and, being short of
cash, she adopted her usual manana plan
of thinking about securing the stable door
after the steed had been stolen.

RICH SUGAR PLANTATIONS.

La Cienfuegos, the leading local newspaper,
asserts that before the war the annual ex-
port of sugar from Cienfuegos was 600,000
hogheads, and that tobacco was not far be-
hind. Some of the richest plantations of the
island lie a little way back of the port, and
connected with it by rail or water, and
what it will become in the radiant future,
under American fostering and with abun-
dant capital to develop the incomparable
resources of the surrounding country, it re-
quires neither a prophet nor the son of a
prophet to foretell. The three considerable
rivers that empty into Cienfuegos bay—the
Canado, Salado and Danajé, each navigable
some distance inland—are of great im-
portance in a land so destitute of good roads.